

Title (en)  
Catheter with spray irrigation

Title (de)  
Katheter mit Spritzspülsystem

Title (fr)  
Cathéter avec irrigation par pulvérisation

Publication  
**EP 2777589 A1 20140917 (EN)**

Application  
**EP 14159628 A 20140313**

Priority  
US 201313804786 A 20130314

Abstract (en)  
A medical probe, including a flexible insertion tube having a distal end for insertion into a body cavity, and a channel contained within the insertion tube and configured to convey a fluid to the distal end. A terminal member is fixed to the distal end of the insertion tube and includes a distal tip configured to be brought into contact with tissue in the body cavity, the distal tip having a first diameter, and a protruding shoulder surrounding the distal tip and having a second diameter, which is greater than the first diameter. The distal tip has one or more spray ports passing through the shoulder which are coupled to the channel so as to direct the fluid from the shoulder toward the tissue so as to irrigate the tissue.

IPC 8 full level  
**A61B 18/14** (2006.01)

CPC (source: EP US)  
**A61B 18/1492** (2013.01 - EP US); **A61M 3/0279** (2013.01 - US); **A61B 2018/00029** (2013.01 - EP US); **A61B 2018/00357** (2013.01 - EP US); **A61B 2018/00577** (2013.01 - EP US); **A61B 2018/00714** (2013.01 - EP US); **A61B 2018/00821** (2013.01 - EP US); **A61B 2218/003** (2013.01 - EP US)

Citation (search report)  
• [XY] US 2011009857 A1 20110113 - SUBRAMANIAM RAJ [US], et al  
• [X] EP 1803407 A1 20070704 - BIOSENSE WEBSTER INC [US]  
• [X] US 2003004506 A1 20030102 - MESSING KATIE [US]  
• [Y] EP 2119407 A1 20091118 - JUN MYONG-KI [KR]  
• [A] US 2009143779 A1 20090604 - WANG HUISUN [US], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2777589 A1 20140917**; AU 2014201284 A1 20141002; CA 2845863 A1 20140914; CN 104042331 A 20140917; IL 231290 A0 20140831; JP 2014176693 A 20140925; US 2014276562 A1 20140918

DOCDB simple family (application)  
**EP 14159628 A 20140313**; AU 2014201284 A 20140307; CA 2845863 A 20140312; CN 201410095060 A 20140314; IL 23129014 A 20140304; JP 2014050127 A 20140313; US 201313804786 A 20130314